Abstract of the Disclosure

A self-guiding wind turbine made of two reinforced parallel girders whose side center of thrust is displaced from the column axis where it is supported and turns. Its dihedral-shaped two-bladed rotor is self-stabilizing since its center of thrust is behind its center of gravity and the guiding axis of the turbine, thus improving self-guiding whilst in motion. The axial thrust is controlled, whilst the head and rotor are tilting, hydraulically by counter-pressure, ensuring they do not surpass the power collected and the moments on the structure, shoe and ground. The self-guiding structure can tilt hydraulically lowering its head and rotor and facilitating its assembly and maintenance, and can remain "asleep" when not in use, thus reducing the visual impact on the environment. This turbine makes use of the force of the wind to control itself, simplifying the manufacture of large turbines connected to the network or in isolated applications.

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